

## IN THE SPECIFICATION

*The following replacement paragraph is provided in place of the original paragraph starting at page 6, 10 lines from the page bottom, and extending to page 7, line 2.*

The patient (or another person such as a physician) is given instructions as to how to draw, on a human body image, the locations where the subjective sensation of pain is felt by the patient. A drawing device such as a pen is used to identify a continuous outline for each pain shape. This marked-up drawing is digitized and computer-coregistered with a non-marked-up drawing. The computer then performs a digital extraction procedure to automatically identify the pain shapes recorded by the patient. The computer automatically calculates a number of clinically relevant measures, e.g., pain shapes, centroids and meta-centroids, derived from the pain location data and compares this dataset with a database derived from groups of patients, each group with a different diagnosis, a different level of disease severity or a difference in another clinical characteristic so as to assign the patient to one or more of these clinical groups or levels of disease severity. A computerized image is generated displaying the pain shapes for the patient together with other clinical data such as possible diagnoses or suggested therapies.